

## **Sudipta Sarangi**

Research Associate, Lima School of Economics  
Fellow, Global Labor Organization

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**FIELDS OF INTEREST:** Applied Game Theory, Experiments and Development Economics

**EDUCATION:**       **Ph.D., Economics**, Virginia Polytechnic Institute and State University.  
                          **M.A., Economics**, Virginia Polytechnic Institute and State University.  
                          **M.A., Economics**, Delhi School of Economics, India.  
                          **B.A., Economics**, Honours, University of Delhi, India.

### **PROFESSIONAL EXPERIENCE:**

**Professor and Department Head**, Virginia Tech, Blacksburg, Virginia, 2015- present

**Member, Research Advisory Council**, Universidad di Pura, Peru, 2021-present

**Program Director**, Economics, National Science Foundation, 2013-2015

**Assistant Professor, Associate Professor, Professor**, Louisiana State University, Baton Rouge, Louisiana, 2000-2015.

**Founding Member, GameNet** (<http://www.gamesnet.in/>)

**Fellow, Global Labor Organization**, 2019-present.

**Director, Odisha Dialogues (NGO)**, 2020-present.

**Research Professor**, DIW Berlin, Germany, 2002-2019.

**Associate Researcher**, GATE Lyon-St Etienne, France.

**Visiting Scholar**, MiCA (2018), University of Arkansas, March-April 2012, International Monetary Fund (IMF), Summer 2006.

**Visiting Professor**, University of Grenoble (2016, 2015); GATE, Lyon-Saint Etienne, (Summer 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006); Purdue University (Spring 2008); Virginia Tech (Fall 2007); DIW Berlin, Germany (Summer 2007, 2006); American University of Armenia, Yerevan, (Summer 2001); Xavier Institute of Management, Bhubaneswar, (Summer 2001).

**Associate Member**, Stephenson Disaster Management Institute (SDMI), Louisiana State University.

**Consultant**, Food and Agricultural Organization (FAO), June-Nov. 2007.

**Visiting Fellow**, DIW Berlin, Germany, Summer 2002.

**Research Assistant**, International Monetary Fund (IMF), Monetary and Exchange Affairs Department (worked for Malcolm Knight and Mario Blejer), 1998; Center for Wireless Telecommunications, Virginia Tech, Summer 1997.

**Short-Term Consultant**, World Bank, East Africa Department, 1996.

**Research Assistant**, for Jean Dreze and Amartya Sen's book "India: Economic Development and Social Opportunity," Center for Development Economics, Delhi School of Economics, 1993-94.

## **AWARDS AND GRANTS:**

*College of Science Outreach Excellence Award*, Virginia Tech, 2021.

*Faculty Research Fellow 2021*, Kellogg Center for Politics, Philosophy and Economics, Virginia Tech.

*2021 AEA Award for Department with Outstanding Achievements in Diversity & Inclusion*, American Economic Association

*2020 Kuznets Prize for the Best Paper*, *Journal of Population Economics*.

*Alumni Award for Excellence in International Research*, Virginia Tech, 2019.

*LSU Distinguished Faculty Award*, Louisiana State University, 2013.

*Teaching Enhancement Fund*, Louisiana State University, 2012.

*Visiting Scholar Fellowship, Behavioral Business Research Lab*, University of Arkansas, 2012.

*LSU Rainmaker Award*, 2008.

*Best Teacher Award: Undergraduate Category*, Department of Economics, Louisiana State University, 2007, 2004.

*E.J. Ourso College Intellectual Contribution Award*, Louisiana State University, 2006.

*Faculty Travel Grant*, Louisiana State University, 2012, 2006.

*Tiger Athletic Foundation Award for Teaching*, Louisiana State University, 2004.

*Junior Faculty Travel Grant*, Louisiana State University, 2000, 2002, 2004 and 2005.

*Emerging Faculty Travel Grant*, Louisiana State University, 2004.

*Graduate Student Travel Grant for International Travel*, Virginia Tech, 1999.

*Merit Scholarship*, Delhi School of Economics, 1991-93.

*National Talent Search Scholarship*, National Council for Educational Research and Training, Government of India, 1986-91.

## **EDITORIAL ACTIVITY:**

Co-Editor, *Journal of Economic Behavior and Organization*, 2017- present

Associate Editor, *Oxford Open Economics*, 2021- present

Associate Editor, *Economic Modelling*, 2020-present  
Associate Editor, *Journal of Public Economic Theory*, 2019- present  
Associate Editor, *Southern Economic Journal* (2013-16) 2021- present  
Advisory Editor, *Studies in Microeconomics*, 2018-present

Guest Editor: *Mathematical Social Sciences*, (2012) *Special Issue in Honor of Hans Haller*  
Guest Editor: *Journal of Public Economic Theory*, (2016) *Special Issue on Networks and Externalities*

Guest Editor: *Journal of Economic Behavior and Organization*, (2021) *Virtual Special Issue on Technical Change, US-China Trade and Labor Market Outcomes*

Guest Editor: *Economic Modelling*, *Special Issue on Crises and Corruption: How Governance and Institutions Interact in Troubled Times (Expected 2022)*

## BOOKS:

*The Economics of Small Things*, Penguin India, November 2020.

*Game Theory and Networks: New Perspectives and Directions*, Indian Statistical Institute Series, Springer Nature. Co-Editors: Surajit Borkotokey, Diganta Mukherjee, KS Mallikarjuna Rao and Rajnish Kumar. December 2021.

*The Political Economy of Corruption: Emerging Issues*, Routledge. Co-editors: Chandan Jha and Ajit Mishra. November 2022.

*Encyclopedia of Networks and Games*, Edward Elgar. Under contract – Expected 2024. Co-editors: Robert P Gilles and Agnieszka Rusinowska.

## JOURNAL PAPERS:

E. Bahel, S. Ball and S. Sarangi, (2022) “Communication and Cooperation in Prisoner's Dilemma Games.” *Games and Economic Behavior*, **133**, 126-137.

U. Dasgupta, C. Jha and S. Sarangi, (2021) “Persistent Patterns of Behavior: *Two Infectious Disease Outbreaks 350 Years Apart*.” *Economic Inquiry*, **59**, 848-857.

D. Choudhury, S. Borkotokey, R. Kumar and S. Sarangi, (2021) “The Egalitarian Shapley Value: A Generalization Based on Coalition Sizes.” *Annals of Operations Research*, **301**, 55-63.

S. Joshi, A.S. Mahmud and S. Sarangi, (2020) “Multigraph Network Formation with Strategic Complementarities.” *Journal of Economic Theory*, **188**, 105033.

U. Dasgupta, C. Jha and S. Sarangi, (2020) “Procedural Rationality in the Times of Coronavirus.” *Economic and Political Weekly*, **55**, 13-16.

- M. Al Azzam, C. Parmeter and S. Sarangi, (2020) “Untangling How Social Capital Matters for Group Lending.” *Economic Modelling*, **90**, 92-107.
- G. Hazarika, C. Jha and S. Sarangi, (2019) “Ancestral Ecological Endowments and Missing Women.” *Journal of Population Economics*, **32**, 1101-1123. [Lead] **2020 Kuznets Prize for the Best Paper in *Journal of Population Economics***.
- P. Billand, C. Bravard, J. Durieu and S. Sarangi, (2019) “Firm Heterogeneity and the Pattern of R&D Collaborations.” *Economic Inquiry*, **57**, 1896-1914.
- Schneider, M., C. Deck, M. Shor, T. Besedes, and S. Sarangi, (2019) “Optimizing Choice Architectures.” *Decision Analysis*, **16**, 2-30. **Runner-up for Best Paper Award for 2020**.
- Q. He, S. Sarangi and Z. Sun, (2019) “Asymmetries in Friendship Networks.” *Singapore Economic Review*, **64**, 799-811.
- Sabounchi, N.S., K. P. Triantis, H. Kianmehr, and S. Sarangi, (2019) “Fuzzy rule-based inference in system dynamics formulations.” *System Dynamics Review*, **35**, 310-336.
- C. Jha and S. Sarangi, (2018) “Women and Corruption: What Positions Must they Hold to Make a Difference?” *Journal of Economic Behavior and Organization*, **151**, 219-233.
- Q. He, Y. Pan and S. Sarangi, (2018) “Lineage-based Heterogeneity and Cooperative Behavior in Rural China.” *Journal of Comparative Economics*, **46**, 248-269.
- C. Deck, S. Sarangi and M. Wiser, (2017) “An Experimental Investigation of Simultaneous Multi-battle Contests with Complementarities.” *Journal of Economic Psychology*, **63**, 117-134.
- P. Billand, C. Bravard, J.J. Kamphorst and S. Sarangi, (2017) “Network Formation when Agents Seek Confirmation of Information.” *Mathematical Social Sciences*, **89**, 20-31.
- C. Jha and S. Sarangi, (2017) “Does Social Media Reduce Corruption?” *Information Economics and Policy*, **39**, 60-71.
- P. Billand, C. Bravard, S.S. Iyengar, R. Kumar and S. Sarangi, (2016) “Network Connectivity under Node Failure.” *Economics Letters*, **149**, 164-167.
- A. Mishra and S. Sarangi, (2016) “High Powered Incentives and Communication Failure.” *Journal of Economic Behavior and Organization*, **131 (Part A)**, 51-60.
- P. Billand, C. Bravard, S. Chakrabarti and S. Sarangi, (2016) “Business Intelligence and Multi-market Competition.” *Journal of Public Economic Theory*, **18**, 248-267.
- M. Plotnikova, S. Sarangi and S. Swaminathan, (2016) “On the Relationship between Spillovers and Bundling.” *Manchester School*, **84**, 181-196.

- T. Besedes, C. Deck, S. Sarangi and M. Shor, (2015) "Reducing Choice Overload without Reducing Choices." *The Review of Economics and Statistics*, **97**, 793-802.
- C Deck, S.M. Quintnna, J.A. Reyes and S. Sarangi, (2015) "Everybody hates a Winner, and You are Close to Your Rival: A Study of Rivalry in College Football." *Economic Inquiry*, **53**, 1908-1919.
- P. Billand, C. Bravard, J. Dureiu and S. Sarangi, (2015) "Efficient Networks for a Class of Games with Global Spillovers." *Journal of Mathematical Economics*, **62**, 203-210.
- D. Kovenock, S. Sarangi and M. Wiser, (2015) "All-Pay Hex: A Multibattle Contest with Complimentarities." *International Journal of Game Theory*, **44**, 571-597.
- C. Cannonier, B. Panda and S.Sarangi, (2015) "20-Overs vs. 50-Overs Cricket: Is There a Difference?" *Journal of Sports Economics*, **67**, 760-783.
- S. Borkotokey, R. Kumar and S. Sarangi, (2015) "A Solution Concept for Network Games with Multilateral Interactions." *European Journal of Operational Research*, **243**, 912-920.
- P. Billand, C. Bravard, S. Chakrabarti and S. Sarangi, (2014) "A Note on Networks of Collaboration in Multi-market Oligopolies." *Annals of Regional Science*, **53**, 325-335.
- N. S.Z. Sabounchi, K Triantis, S. Sarangi and S. Liu, (2014) "Dynamic Simulation Modeling and Policy Analysis of Congestion Pricing for a Transportation Socioeconomic System." *Transportation Research: Part A*, **59**, 357-383.
- S. Borkotokey, L Gogoi and S. Sarangi, (2014) "A Survey of Player Based and Link Based Allocation Rules for Network Games." *Studies in Microeconomics*, **2**, 5-26. [Lead article].
- T. Besedes, C. Deck, S.M. Quintnna, S. Sarangi and M. Shor, (2014) "Effort and Performance: What Distinguishes Interacting and Non-Interacting Groups from Individuals?" *Southern Economic Journal*, **81**, 294-322.
- M. Wiser, G. Yeomans-Maldonado, S. Sarangi, (2014) "Having More Fun with "Organized Kissing." *Southern Economic Journal*, **80**, 855-865.
- P. Billand, C. Bravard and S. Sarangi, (2013) "Modeling Resource Flow Asymmetries using Condensation Networks." *Social Choice and Welfare*, **41**, 537-549.
- Al-azzam, M., M. Heracleous and S. Sarangi, (2013) "Does the Group Leader Affect Repayment Performance Differently?" *Southern Economic Journal*, **80**, 111-134.
- P. Billand, C. Bravard and S. Sarangi, (2013) "A Note on Local Spillovers, Convexity and the Strategic Substitutes Property in Networks." *Theory and Decision*, **75**, 293-304.

- H. Kyureghian, M. Plotnikova and S. Sarangi, (2013) "When Consumers and Firms Share Transportation Costs." *Studies in Microeconomics*, **1**, 91-111.
- P. Billand, C. Bravard and S. Sarangi, (2012) "Spillovers with Directed Networks." *Journal of Public Economic Theory*, **14**, 849-878 [*Lead article*].
- T. Besedes, C. Deck, S. Sarangi and M. Shor, (2012) "Age Effects and Heuristics in Decision Making." *The Review of Economics and Statistics*, **94**, 580-595.
- P. Billand, C. Bravard and S. Sarangi, (2012) "On the Interaction between Heterogeneity and Decay in Two-way Flow Networks." *Theory and Decision*, **73**, 525-538.
- P. Billand, C. Bravard and S. Sarangi, (2012) "Existence of Nash Networks and Partner Heterogeneity." *Mathematical Social Sciences*, **64**, 159-165.
- G. Goering and S. Sarangi, (2012) "Durable Goods Produced by State Owned Enterprises." *Economic Modelling*, **29**, 893-899.
- Al-azzam, M., C. Hill and S. Sarangi, (2012) "Repayment Performance in Group Lending: Evidence from Jordan." *Journal of Development Economics*, **97**, 404-414.
- T. Besedes, C. Deck, S. Sarangi and M. Shor, (2012) "Decision-making Strategies and Performance among Seniors." *Journal of Economic Behavior and Organization*, **81**, 524-533.
- P. Billand, C. Bravard and S. Sarangi, (2011) "Heterogeneity and Link Imperfections in Nash Networks." *International Game Theory Review*, **13**, 181-194.
- P. Billand, C. Bravard and S. Sarangi, (2011) "Strict Nash Networks and Partner Heterogeneity." *International Journal of Game Theory*, **40**, 515-525.
- L. Razzolini, S. Sarangi, D. Teodorovic and K. Triantis, (2011) "Traffic Congestion Mitigation: Combining Engineering and Economic Perspectives." *Transportation Planning and Technology*, **37**, 637-645.
- L. Stuart and S. Sarangi, (2011) "Auto Restricted Zone versus Price Changes: A Case Study." *Transportation Planning and Technology*, **37**, 717-726.
- S. Liu, S. Sarangi and K. Triantis, (2011) "Representing Qualitative Variables and their Interactions with Fuzzy Logic in System Dynamics Modeling." *System Research and Behavioral Science*, **28**, 245-263.
- P. Billand, C. Bravard and S. Sarangi, (2010) "The Insider-Outsider Model Reexamined," *Games*, **1**, 422-437.

- R. Gilles and S. Sarangi, (2010) "Network Formation under Mutual Consent and Costly Communication." *Mathematical Social Sciences*, **60**, 181-185.
- S. Liu, S. Sarangi and K. Triantis, (2010) "A Framework for Evaluating the Dynamic Impacts of a Congestion Charging Policy for a Transportation Socio-economic System." *Transportation Research: Part A*, **44**, 596-608.
- A. Roy and S. Sarangi, (2009) "Revisiting Friendship Networks." *Economics Bulletin*, **29**, 2644-2651.
- C. Deck and S. Sarangi, (2009) "Inducing Imperfect Recall in the Lab." *Journal of Economic Behavior and Organization*, **69**, 64-74.
- P. Billand, C. Bravard and S. Sarangi, (2008) "A Note on Existence of Nash Networks in One-way Flow Models." *Economics Bulletin*, **79**, 1-4.
- P. Billand, C. Bravard and S. Sarangi, (2008) "Existence of Nash Networks in One-way Flow Models." *Economic Theory*, **37**, 491-507.
- G. Hazarika and S. Sarangi, (2008) "Household Access to Microcredit and Child Work in Rural Malawi." *World Development*, **36**, 843-859.
- H. Haller, J.J. Kamphorst and S. Sarangi, (2007) "(Non-) Existence of and Scope of Nash Networks." *Economic Theory*, **31**, 597-604.
- R. Kannan, L. Ray and S. Sarangi, (2007) "The Structure of Information Networks." *Economic Theory*, **30**, 119-134.
- R. Gilles, S. Chakrabarti, S. Sarangi and N. Badasyan, (2006) "Critical Agents in Networks." *Mathematical Social Sciences*, **52**, 302-310.
- M. Aristidou and S. Sarangi, (2006) "Games in Fuzzy Environments." *Southern Economic Journal*, **72**, 645-659.
- H. Haller and S. Sarangi, (2005) "Nash Networks with Heterogeneous Links." *Mathematical Social Sciences*, **50**, 181-201.
- Roger Hewett, *et al.* (2005) "A Classroom Exercise: Voting by Ballots and Feet." *Southern Economic Journal*, **72**, 253-263.
- P. Chatterjee and S. Sarangi, (2005) "Enforcement with Costly Group Formation." *Economics Bulletin*, **15**, 1-8.
- A. Feltenstein and S. Sarangi, (2005) "Macroeconomic Stabilization and Economic Growth: The Case of Uganda." *African Development Review*, **17**, 1-22.

- G. Lyudyno and S. Sarangi, (2004) “e-Honesty: When does it Pay?” *Netnomics*, **6**, 209-219.
- R. Kannan, S. Sarangi, and S. Iyengar, (2004) “Sensor-centric Energy-constrained Reliable Query Routing for Wireless Sensor Networks.” *Journal of Distributed and Parallel Computing*, **64**, 839-852.
- S. Sarangi, K. Triantis and D. Kuchta, (2003) “Fuzzy Pair-wise Dominance and Fuzzy Indices: An Evaluation of Productive Performance.” *European Journal of Operational Research*, **144**, 414-428.
- R. Kannan, S. Sarangi, S. Ray and S. Iyengar, (2003) “Computing Minimal Sensor Integrity in Sensor Grids.” *Information Processing Letters*, **86**, 49-55.
- A. Feltenstein and S. Sarangi, (2002) “Macroeconomic Stabilization and Economic Growth: Analysis of Reform Policies in Tanzania.” *Journal of Policy Modeling*, **24**, 503-521.
- P. Kulshrestha and S. Sarangi, (2001) “No Return, No Refund: An Analysis of Deposit-Refund Systems.” *Journal of Economic Behavior and Organization*, **46**, 379-394.
- S. Sarangi and R. Verbrugge, (2000) “Late Fees and Price Discrimination.” *Economics Letters*, **69**, 153-158.

#### BOOK CHAPTERS:

- C.K. Jha and S. Sarangi, (2022) “How Advances in Information and Communication Technologies Affect Corruption” In *The Political Economy of Corruption: Emerging Issues*, Routledge. Ed: C.K. Jha, A. Mishra and S. Sarangi
- P. Billand, C. Bravard, S. Chakrabarti and S. Sarangi, (2010) “Extending Networks of Collaboration to Multimarket Oligopolies” In *Collaboration Networks for a Sustainable World*. Springer Nature. Ed.: L. M. Camarinha-Matos, X. Boucher and H. Afsarmanesh.
- S. Borkotokey, R. Kumar and S. Sarangi, (2013) “Bicooperative Games: Applications in Management and a Simple Solution” In *Applications of Game Theory in Management and Operations Research*. Academic Foundation Publishers. Eds. R. K. Mishra, Shaheen, J. Raveendran, S. Deman.
- S. Sarangi and S. Upadhyay (2021) “Social Preferences and Public Goods” In *Game Theory and Networks: New Perspectives and Directions*. Springer Nature. Eds. S. Borkotokey, R. Kumar, D. Mukherjee, KS Mallikarjuna Rao and S. Sarangi.
- S. Borkotokey, R. Kumar, D. Mukherjee, K.S. Mallikarajuna Rao and S. Sarangi and (2021) “Introduction” In *Game Theory and Networks: New Perspectives and Directions*. Springer Nature. Eds. S. Borkotokey, R. Kumar, D. Mukherjee, KS Mallikarjuna Rao and S. Sarangi.



## OTHER REFEREED PUBLICATIONS:

C.K. Jha, A. Mishra and S. Sarangi (2022), "Introduction" In *The Political Economy of Corruption: Emerging Issues*, Routledge. Ed: C.K. Jha, A. Mishra and S. Sarangi.

S. Sarangi, (2021) Book Review: "Behavioral Economics and Experiments" by Ananish Chaudhuri, (2021) Routledge: New York and London, forthcoming *Journal of Behavioral and Experimental Economics*.

S. Borkotokey, L. Gogoi, R. Kumar, S. Sarangi and K.S. Mallikarjuna Rao, (2019) "Middlemen in Cooperative Games" *Journal of Scientific Research*, Banaras Hindu University (Invited submission).

D. Salehi-Isfahani, S. Sarangi, W. You, A. Alsharawy, S. Alkhuzam and B. Alhumaid, (2018) "Positive Peer Pressure: Leveraging Peer Effects to Motivate Job Search among Youth" *Policy Insights*, Harvard Kennedy School *Evidence for Policy Design*.

S. Ranganathan, S. Luo, K. Tsang, C. Grubb and S. Sarangi, (2017) "Modeling and Prediction in dynamic multiplex networks: A case study using interlinked global trade and financial networks" *International Indian Statistics Association Annual Meeting*, Hyderabad, India.

C. Jha and S. Sarangi (2016) "Do Women in Power have an Impact on Corruption?" *South Asia @ LSE* (17 May 2016). Blog Entry: <http://eprints.lse.ac.uk/74748/>

C. Bravard and S. Sarangi, (2016) "Introduction to the Special Issue on Networks and Externalities" *Journal of Public Economic Theory*, **18**, 143-147.

D. Mukherjee and S. Sarangi, (2014) "Introducing the Special Issue on Networks in Cognitive and Social Sciences" *Studies in Microeconomics*, **2**, 1-3.

F. Bloch and S. Sarangi, (2012) "Bargaining Evolutions and Networks: A Special Issue in Honor of Hans Haller" *Mathematical Social Sciences*, **64**, v-vi.

Sabounchi, N., Triantis, K., Sarangi, S., and Liu, S., (2011) "Fuzzy Modeling of Linguistic Variables in a System Dynamics Context," *Proceeding of the International System Dynamics Conference*, Washington DC.

P. Billand, C. Bravard, J.J. Kamphorst and S. Sarangi, (2010) "Axiomatic Characterization of Nash Networks" *Proceedings of the Behavioral and Quantitative Game Theory Conference on Future Directions*.

P. Chatterjee and S. Sarangi (2006) Book Review: "Economics of Microfinance" by Morduch, Jonathan and Beatriz Armendariz de Aghion, (2005) MIT Press: Cambridge. *Southern Economics Journal*, **73**, 259-264.

R. Gilles, S. Chakrabarti, S. Sarangi and N. Badasyan, (2004) "Middlemen in Peer-to-Peer Networks: Stability and Efficiency." *Proceedings of the Second Workshop on the Economics of Peer-to-Peer Systems*, Harvard University.

R. Kannan, S. Sarangi, S. Iyengar and L. Ray, (2003) "Sensor-Centric Quality of Routing in Sensor Networks." *Proceedings of IEEE INFOCOM*, 692-701.

R. Kannan, S. Iyengar and S. Sarangi, (2003) "Dynamic Protocols for Reliable Query Reporting in Sensor Networks." *Storming Media Technical Report 545314*.

R. Kannan, S. Sarangi, S. Ray and S. Iyengar, (2002) "Minimal Sensor Integrity in Sensor Grids." *ICPP 2002*, 567-571.

K. Triantis, S. Sarangi and D. Kuchta, (2001) "Fuzzy pair-wise dominance and fuzzy indices: An evaluation of productive performance" *NOFOMA 2001 Conference*, Reykjavik, Iceland.

### **WORKING PAPERS:**

P. Billand, C. Bravard, S. Joshi, A.S. Mahmud and S. Sarangi, "A Model of the Formation of Multilayer Networks." R&R.

C. Bravard, J. Durieu, S. Sarangi and S. Semirat, "False Information from Near and Far." R&R.

S. Ge, Q. He and S. Sarangi, "*Reaping What You Sow*: Historical Rice Farming and Contemporary Cooperative Behavior in China." Submitted.

C.K. Jha and S. Sarangi, "Arable Land in Antiquity Explains Modern Gender Inequality." Submitted.

M. Agurto, S. Buzinsky, S. Hari, V. Quevedo, Sarangi, and S. Vegas "Academic Aptitude Signals and STEM Field Participation: A Regression Discontinuity Approach." Submitted.

M. Agurto, M. Bazan, S. Hari and S. Sarangi, "*To Inspire and to Information*: The Role of Role Models." Submitted.

P. Billand, C. Bravard, S. Sarangi and M. Wooders, "Price Sensitive Consumers and R&D Network Formation."

S. Joshi, A. S. Mahmud, S. Sarangi, and H. Tzavellas, "Social Networks and Intergenerational Mobility."

M. Agurto, H Djebbari, S. Sarangi, B. Silupu, C. Trivelli and J. Torres, "Local Ambassadors Promote Mobile Banking in Northern Peru." Submitted.

C. Deck, S. Sarangi and M. Wisner, "Electoral College: A Multi-battle Contests with Complementarities."

N. S.Z. Sabounchi, K Triantis, S. Sarangi and S. Liu, "Multiple Linguistic Variables in System Dynamics: The Role of Fuzzy Rules and Defuzzification Methods."

P. Billand, C. Bravard, and S. Sarangi, "Unequal Resource Sharing and Mutual Insurance in Communities."

S. Borkotokey, R. Kumar and S. Sarangi, "Potential and Bicooperative Games: A Note."

S. Borkotokey, S. Sarangi and M. Wiser, "Disruption in Round-robin Tournaments."

S. Sarangi and E. Unlu, "Key Groups and Key Players in Teams"

P. Chatterjee and S. Sarangi, "Group Lending under Costly Group Formation."

J. Cavanuagh, M. Heracleous, S. Sarangi and R. Veron, "Testing for Mixed Strategies in Tennis."

Belsome, R., R.J. Newman, A. Parker and S. Sarangi, "Ghosts of the Elections Past: Third Party Shepherds and Stray Voters."

H. Haller and S. Sarangi, "Revisiting Fuzzy Game Theory."

### **WORK IN PROGRESS:**

"A Clean Air Story"

"Social Network Formation with Consent: Nash Equilibria and Pairwise Refinements" (with Robert Gilles and Subhadip Chakrabarti)

"Idle Child: The Household's Buffer" (with P Maitra and B Panda)

"Games with Reference Payoffs"

"Experimenting with Traffic Flows" (with Laura Razzolini)

"Economics of the Video Rental Industry" (with Chiara Gratton-Lavoie)

"Do Consumer Networks Matter for Low Price Guarantees?" (with S. Bhowmick)

"Unequal Connections with Unequal Agents"

"A Complete Analysis of Motivations for Giving in Dictator Games." (with E. Feess, L. Razzolini, and C. Schumacher)

## FUNDED RESEARCH:

Co-PI, National Science Foundation, \$120,000.

Topic: *Workshops on Network Economics*

Co-PI, ISCE 2018-19 Scholars Program, Virginia Tech.

Topic: *Women in STEM: The Role of Role Models*, \$29,250.

Technical Advisor and Conceptualization, 100,000 Strong in the Americas Innovation Fund

Topic: *Let's Design and Evaluate Environment and Education Policy in the Field: Insights from Behavioral Economics, Field Experiments and Randomized Control Trials*, \$25000.

Co-PI, Policy Strategic Growth Area Grant, Virginia Tech

Topic: *Ethical Decision-Making under Ambiguity*, \$2500.

PI, CIDER, Instructional Innovation Grant, Virginia Tech

Topic: *Experiment Driven Policy Making*, \$2500.

PI, Lima School of Economics

Topic: *Academic Ambassadors, Financial Inclusion and Educational Decisions in Peru*, RA Support.

Technical Advisor, Partnership for Economic Policy

Topic: *Academic Ambassadors and the Diffusion of Digital Financial Services among the Peruvian Poor*, \$120,000.

Co-PI, Evidence for Policy Design (EPoD), Harvard University

Topic: *Peer Effects in Job Search for Saudi Youth*, \$100,000.

Co-PI, Dean's Discovery Fund, COS Virginia Tech

Topic: *The Tale of Two Networks: Trade and Financial Linkages in the Global Economy*, \$33,369

Co-PI, Global Forum Summer Research Fund, Virginia Tech.

Topic: *Financial Resilience and the U.S. Mortgage Market*, \$15,000.

Co-PI, Evidence for Policy Design (EPoD), Harvard University

Topic: *Peer Effects in Job Search and On-the-Job Training for Saudi Youth*, \$15,000.

Co-PI, Institute for Culture, Society and the Environment, Virginia Tech.

Topic: *Strategic Lying and Cooperative Behavior in Games*, \$19,650.

PI, National Science Foundation (NSF), 2012.

Topic: *Networks and Development: Exploring an Emerging Theme*, \$28,000.

PI, Small Grant for Exploratory Research, CBEES, University of Texas at Dallas.

Topic: *Understanding Terror Networks*, \$5,000.

PI, University Transportation Center (USDOT), 2009-2010.

Topic: *An Integrated Approach to Modeling Evacuation Behavior*, \$20,000.

PI, Department of Homeland Security (DHS), 2008-2014

Topic: *Revealed Preferences*, \$550,000. (terminated due to funding shortage)

PI, Department of Homeland Security (DHS), 2009-2014

Topic: *Computational Network Modeling*, \$875,000. (terminated due to funding shortage)

PI, National Institutes of Health (NIH) Grant, 2008-2010:

Topic: *Confusion from Profusion*, \$97,000.

PI, Small Grant, *Stephenson Disaster Management Institute*, \$10,000.

PI, National Science Foundation (NSF) Grant, 2005-2007:

Topic: *Traffic Congestion*, \$130,000.

Council of Research, Louisiana State University, 2006.

Topic: *Building Social Networks*, \$5,000.

PI, Faculty Research Grant, Louisiana State University, 2006-2007.

Topic: *Weak Ties, Strong Ties and Labor Market Outcomes*, \$10,000

Evaluator, State of Louisiana Department of Social Services TANF Evaluation Team. Contract awarded to School of Social Work, Office of Social Service Research and Development, Louisiana State University, 2006-2007. \$25,000.

Co-PI, Defense Advance Research Program Agency (DARPA) Grant, July 2001-02.

Topic: *Game-theoretic Sensor Networks*, \$150,000.

## **REVIEWING ACTIVITY:**

Econometrica, Games and Economic Behavior, Journal of the European Economic Association, Review of Economic Design, Journal of Regulatory Economics, American Economic Review, Mathematical Social Sciences, Economica, World Development, Economic Theory, Journal of Economics and Finance, Bulletin of Economic Research, International Journal of Game Theory, International Journal of Economic Theory, Journal of Labor Research, Southern Economic Journal, European Journal of Operational Research, Economics Bulletin, Manchester School, Asia-Pacific Journal of Operations Research, International Journal of Business and Economics, Journal of Public Economic Theory, Journal of Applied Economics, International Game Theory Review, International Economic Review, Physica A, Journal of Economic Behavior and Organization, Transportation Research: Part A, National Science Foundation, Social Sciences and Humanities Research Council of Canada.

## WEB COLUMNS

Hazarika, Gautam, Chandan Kumar Jha, and Sudipta Sarangi, Mar 15, 2019. [Ancestral ecological endowments and contemporary sex ratios](#)". Ideas for India.

Jha, Chandan Kumar and Sudipta Sarangi, May 21, 2014. [Do women in power have an impact on corruption?](#)" Ideas for India. Also featured on [International Growth Centre \(IGC\)](#) blog.

Jha, Chandan Kumar and Sudipta Sarangi. Feb. 21, 2014. [Rape: The shame of a nation](#)" Ideas for India. Reproduced by [Live Mint](#).

## POPULAR PIECES (*A SELECTION*):

"*Reduce la corrupcion la eleccion de mas mujeres politicas?*" (Does electing more women lead to less corruption?) with Sudipta Sarangi. *El siglo de las mujeres* (The century of women) in *Vanguardia Dossier*, Julio/Septiembre, 2019.

I have also written pieces for the *The Roanoke Times*, *The Outlook*, *ISB Insights* and *The Print*. Below are a few examples.

[Because we care](#)

[Meet the Sotheby's of the Economic World: Nobel Laureates Paul Milgrom and Robert Wilson](#)  
[Are Indian men posting more food pictures online? A new trend is emerging during pandemic](#)

The following is a selection of pieces from the *The Hindu BusinessLine*, one of India's major business newspapers.

Is it passé for the 50-over ODI? <http://www.thehindubusinessline.com/opinion/article2742184.ece>

P.G. Wodehouse, Futurist. <http://www.thehindubusinessline.com/opinion/article3497610.ece?homepage=true>

Palaces, Raki and Game Theory. <http://www.thehindubusinessline.com/opinion/article3722952.ece>

In God We Trust. <http://www.thehindubusinessline.com/opinion/article3824488.ece>

Capturing Indian 'Crab' Behavior. <http://www.thehindubusinessline.com/opinion/capturing-indian-crab-behaviour/article4570414.ece>

Lessons from Stolen Shoes. <http://www.thehindubusinessline.com/opinion/lessons-from-stolen-shoes/article4753325.ece>

Telegram. An Obituary. Stop. <http://www.thehindubusinessline.com/opinion/telegram-an-obituary-stop/article4915031.ece>

Where Have all the Other Mangoes Gone? <http://www.thehindubusinessline.com/opinion/where-have-all-the-other-mangoes-gone/article6245896.ece>

## WORKSHOPS AND CONFERENCES:

## **Organized:**

Co-organizer with Kaushik Basu, 100 Years of Economic Development Conference, Cornell University.

Co-Organizer with Arun Chandrasekhar, Ben Golub and Matt Jackson, NSF Sponsored Network Science Conference, 2019-2023.

Southern Economics Association Meetings (10 sessions, 2022), (6 sessions, 2019), (12 sessions, 2018), (10 sessions, 2016).

Committee Member, *Association for Public Economic Theory* Annual Meetings, 2022, 2018, 2014, 2013, 2012 and 2011.

Host, GamesNet Webinar series, 2020-21.

Twenty-third Biennial Meetings of the Association of Indian Economics and Financial Studies, Bhubaneswar, 2019.

Fifth Mini Conference on Games and Networks, ISI Kolkata, 2017

“The Role of Externalities in Networks,” February 2013, LSU. Special Issue of *Journal of Public Economic Theory* for papers in the Conference.

“Networks and Development: Exploring an Emerging Theme,” March 2012, LSU, sponsored by the National Science Foundation (NSF).

“Bargaining, Evolution and Networks: A Conference in Honor of Hans Haller”, LSU, February 2011. Special Issue of *Mathematical Social Sciences* for papers in the Conference. Co-Editors: Sudipta Sarangi and Francis Bloch.

“LSU Conference on Networks,” February 2010.

## **Presentations:**

“Intergenerational Mobility and Social Networks”  
Cambridge Janeway Networks Webinar, PET 2022.

“Historical Origins of Contemporary Gender Inequality”  
Keynote: ICCIE, XIM University, 2022; IMPRI Gender Talk Series, 2021.

“Multigraph Network Formation with Strategic Complementarities”  
Paris School of Economics and Paris 1 (Sorbonne), University of Paris-Dauphine, ISI Delhi Growth and Development Conference, University of Maryland, George Mason University, Virginia Tech, Cornell University, Syracuse University, Appalachian State University, Institute for Economic Growth, Delhi, AIEFS 23<sup>rd</sup>

Biennial Meetings, PET Meetings, Strasbourg, University of Bielefeld, Peking University, Central University of Economics and Finance, Beijing, Fifth NSF Network Science Conference, Indiana University, 2019; University of Heidelberg, Networks and Games Conference, QUB Belfast, 2018; ETH Zurich, GATE University of Lyon-St. Etienne, Third NSF Network Science Conference, Washington University, 2017.

**“Multirelational Network Formation”**

Peking University, 2021; GamesNet Webinar 2020; Fourth NSF Network Science Conference, Vanderbilt University, 2018.

**Multiple Covid-19 Panels in 2020.**

**“Are More Choices Better and Other Tales about Decision-making”**

*Behavioral Insights Unit*, NITI Ayog, Government of India, 2022; **Baidyanath Misra Memorial Lecture**, 2020. Kirori Mal College, Delhi, DDREAMS Lecture Series, Virginia Tech, 2019. *IIT Mumbai Institute Lecture, MiCA Public Lecture*, Dibrugarh University, Qatar University Business School, Public Lecture, Dibrugarh University: Mini Course in *Workshop on Networks and Games*, 2018. **Gosnell Public Lecture**, Rochester Institute of Technology, 2017.

**“The Economics of Small Things: Book Talk”**

IIM Ahmedabad, IIT Bombay, KREA University, Assam University, 2020.

**“Outreach Talk: The Economic Way of Thinking”**

KPS School, Chakradharpur, India.

**“Using External Validation to Reduce the Gender Gap in STEM Education”**

SEA Association Meeting 2019.

**“Interdisciplinary Research: A No-man’s land?”**

Destination Areas Lecture Series, Virginia Tech, 2018.

**“Waiting in Line for Two Robert Frost Poems”**

XUB Bhubaneswar, PPE Gateway Course Lecture, Honors Residential College, Virginia Tech, 2019.

**“Price Sensitive Consumers and R&D Network Formation”**

Southern Economic Association, 2018; Information Transmission in Networks, Harvard University, 2015.

**“Women and Corruption: What Positions Must they Hold to Make a Difference?”**

MiCA Public Lecture, 2018; University of Lyon-St. Etienne, 2015; 9th Annual Conference on Economic Growth and Development, ISI Delhi, 2013.



“Lectures on Multibattle Contests”

DIW Berlin, 2018.

“Game Theory: An Introduction”

4-H Summer Camp, Black College Institute, Virginia Tech, 2019; MiCA, Ahmedabad; ROTC Camp & Black College Institute, Virginia Tech, Summer 2018.

“How People Make Decisions”

Knowledge Hour, HRDF Riyadh; NCDS, Bhubaneswar; KSOM, Bhubaneswar, 2016.

“Electoral College: A Multi-battle Contest with Complementarities”

MiCA, Ahmedabad, *Workshop on Networks and Games*, Dibrugarh University, ESA Annual Meetings, Cornell University, 2018; ESA Annual Meetings, GATE University of Lyon-St. Etienne, University of Bath, Cardiff University, Middlesex University, Behavioral Models of Politics, Duke University, KSOM Bhubaneswar, University of North Dakota, 2017; University of Grenoble; 12th Annual Conference on Economic Growth and Development, ISI Delhi, 2016.

“Introduction to Social and Economic Networks”

Dibrugarh University: Mini Course in *Workshop on Networks and Games*, 2018. KSOM, Bhubaneswar, 2017.

Keynote: Social and Economic Networks: Recent Developments

IIT Mumbai and IGIDR Mumbai, 2016.

“Recent Development in Social and Economic Networks: A Workshop”

University of Cincinnati, 2016.

“High Powered Incentives and Communication Failure”

Southern Economics Association Meetings, 2015.

“The Economics of Small Things”

**Plenary Talk**: Conference on Game Theory and Application to Social & Economic Networks, Department of Mathematics, Dibrugarh University, India, 2014.

“Uncertain Innovation and R&D Network Formation”

Auburn University, Royal Economic Society Meetings, 2015; 10th Annual Conference on Economic Growth and Development, ISI Delhi, 2014.

“Network Formation when Agents Seek Confirmation of Information”

19<sup>th</sup> CTN Workshop, Brussels, 2014; Seoul National University, South Korea, Asian Meeting of the Econometric Society, New Delhi, 2012; Indiana University, Rice University, Vanderbilt University, PET 2011.

“Networks: Connecting the Different Disciplines”

**Plenary Talk:** Workshop on Social and Economic Networks, IIT Jodhpur, India, 2013.

“Contests with Complementarities”

American University Washington DC, Queen’s University Belfast, 2014; Indian School of Business, Université Bordeaux, 2013

“An Experimental Investigation of Simultaneous Multi-battle Contests with Complementarities”

ESA European Meetings, Bergen, University of Virginia Experimental Workshop, 2016; Southern Economics Association Meetings, University of Lyon-St. Etienne, 2013.

“Mutual Insurance Networks in Communities”

Southern Economics Association Meetings, Georgetown University, 2014; *Bordeaux Economic Theory Workshop on Interactions Institutions and Design*, Université Bordeaux, Strategic Network Formation and Evolution, Kolkata, 2013; 8th Annual Conference on Economic Growth and Development, ISI Delhi, 2012.

“Reducing Choice Overload without Reducing Choices”

University of Lyon-St. Etienne, 2014; Louisiana State University, Lancaster University, National Science Foundation, University of North Dakota, 2013; Southern Economics Association Meeting 2012.

“Game-Theoretic Models of Node Failure”

Games 2012, Istanbul, Turkey.

“Perspectives on Decision-making: The Role of Aging and Groups”

DIW Berlin, Université Bordeaux, 2012; University of Lyon-St. Etienne, Max Planck Institute for Human Development, Berlin, Singapore Economic Review Conference and IFMR, Chennai, 2011.

“Making an Optimal Choice: Individuals vs. Group Decisions.”

PET 2011; Southern Economics Association Meeting 2010.

“Key Groups and Key Players in Teams: A Network Approach using Soccer Data”

Vanderbilt University, 2011; University of Illinois, Urbana-Champaign, DIW Berlin, PET 2010.

**“Axiomatic Characterization of Nash Networks”**

Behavioral and Quantitative Game Theory: Conference on Future Directions 2010, Newport Beach.

**“Age Effects and Heuristics in Decision Making”**

DIW Berlin, 2010; University of Exeter, Queens University Belfast, Virginia Tech, 2009.

**“Corporate Espionage”**

University of Cambridge, APET 2009; Games 2008.

**“Heterogeneity and Link Imperfections in Nash Networks”**

Purdue University, IUPUI, American University, 2008; Virginia Tech, University of Virginia, Southern Methodist University, University of Wisconsin-Milwaukee, Virginia Bioinformatics Institute, Logic, Game Theory and Social Choice (LGS 5), Bilbao, Spain, 2007.

**“Social Network Formation with Consent: Nash Equilibria and Pairwise Refinements”**

Social Choice and Welfare Conference, Istanbul Turkey, 2006.

**“Critical Agents in Networks”**

Social Choice and Welfare Conference, Istanbul Turkey, 2006.

**“Building Social Networks”**

American Economic Association, 2007; DIW Berlin, South Asia and South East Asia Econometric Society, 2006.

**“Revisiting the Absentminded Driver: An Experimental Investigation”**

DIW Berlin, 2007; Virginia Commonwealth University, Louisiana State University, Southern Economics Association, 2006.

**“Idle Child: The Household’s Buffer”**

ASSA Meetings 2005.

**“Social Network Formation with Consent”**

Southern Economics Association Meetings, 2005.

**“The Role of Myopic Beliefs and Confidence in Costly Network Formation”**

Econometric Society World Congress, London, Louisiana State University, 2005.

**“The Role of Middlemen in Efficient and Strongly Pairwise Stable Networks”**

Econometric Society Winter Meetings, 2005; GAMES 2004, Marseille, Midwest Economic Theory Meetings 2004.

**“Social Identity and Group Lending”**

ASSA Meetings 2005; NEUDC, 75 Years of Development Research Conference at Cornell University, Massey University, New Zealand, and Madras School of Economics, Chennai, India, Southern Economics Association Meetings, 2004;

**“Middlemen in P2P Networks: Stability and Efficiency”**

Conference on the Economics of P2P Systems, Harvard University, 2004.

**“Workshop on Social and Economic Networks”**

Massey University, New Zealand 2004.

**“Network Formation under Consent”**

ISI Calcutta, Kolkatta, India, 2004.

**“Game-theoretic Models of Network Formation”**

MS University, Baroda, India, 2004.

**“The Role of Trust in Costly Network Formation”**

Midwest Economic Theory Meetings, Public Choice Society Meetings, American University and University of Mississippi, Econometric Society Summer Meetings 2004; PET 2003, Louisiana State University and Emory University, 2003.

**“Strongly Pairwise Stable Networks”**

Southern Economics Association, 2003.

**“The Structure of Information Networks.”**

Society for Economic Design, GAMES 2004, Marseille and Indian School of Business, Hyderabad, 2004; Game Theory and Applications, Mumbai, Public Choice Meetings (Session Chair), Royal Economic Society Meetings, Warwick, (Session Chair) and Econometric Society Summer Meetings, 2003; University of Arkansas, Louisiana State University, Colgate University, Southern Economic Association Meetings (Session Chair), Midwest Economic Theory Meetings, 2002.

**“Nash Networks with Heterogeneous Agents.”**

Midwest Economic Theory Meetings, 2005; *DIW* Berlin, 2002; University of Leicester, University of Arizona, American University of Armenia, Yerevan, Delhi School of Economics, Jawaharlal Nehru University, New Delhi, Southern Economics Association Meetings, 2001; *Economic Implications of Networks*: SITE 2000, Stanford Institute for Theoretical Economics, Southeastern Economic Theory Meetings, Rice University and University of Houston, 2000.

**“Transport Cost Sharing and Spatial Competition.”**

Southern Economic Association Meetings, 2000; Session Chair: *Networks and Spatial Models II*. Southeastern Economic Theory Meetings, Georgetown University, Washington D.C., 1999.

“Monopoly and Contrived Depreciation in the Presence of Resale.”  
Young Economists Meeting, University of Amsterdam, Free University and Tinbergen Institute, Amsterdam, Netherlands 1999.

“*No Return, No Refund: An Analysis of Deposit-Refund Systems.*”  
Southeastern Economic Theory Meetings, Virginia Tech, Blacksburg, 1998.

“Games with Reference Payoffs.”  
Southeastern Economic Theory Meetings, University of North Carolina, 1997.

Participant, *First Graduate Student Workshop on Experimental Economics*, Economic Science Laboratory, University of Arizona, 1995.

### **PROFESSIONAL SOCIETIES:**

American Economic Association, Southern Economic Association, Royal Economic Society, Econometric Society, Game Theory Society.

### **SERVICE:**

#### ***Virginia Tech***

##### Department Level:

Member 2017-2018, Recruiting Committee (9 hires)  
Seminar Organizer, Spring 2016.

##### University level:

Member, *Steering Committee* Intelligent Infrastructure and Human Centered Communities (Destination Area).  
Member, Gender@VT University Committee.  
Stakeholder, Data and Decisions Destination Area.  
Diversity Officer, Recruiting Committee, Data and Decisions  
PDI Panelist, 2016.

#### ***Louisiana State University***

Department level: Numerous committees over the years.

Graduate Advisor and College Graduate Committee. 2008-2010.

Faculty Advisor: ECON and ITF Club, 2003-2006.

College level: Dean’s Globalization Committee 2008-2012.

##### University level:

Coordinating Committee member, *International Studies*.

Member, *Asian Studies*.

Faculty Advisor, *Indian Students Association*, 2009-2010.

## **TEACHING:**

*Undergraduate Courses Taught at Virginia Tech:* Economic Puzzles in Movies, History and Literature, Undergraduate Game Theory, Special Topics in Food, Water and Energy, Microeconomic Theory, Principles of Economics

*Graduate Courses Taught at Virginia Tech:* Refresher Course in Mathematics for incoming Ph.D. students

*Undergraduate Courses Taught at LSU:* Principles of Economics, Intermediate Microeconomics, Economics of Information Goods, Undergraduate Game Theory, Game Theory and Development.

*Graduate Courses Taught at LSU:* Mathematics for Economists I, Microeconomics II, Economics of Networks and Microeconomics III.

*MBA Courses:* Pricing Information Goods (American University of Armenia) Economics of Information Goods (Xavier Institute of Management, India).

## **DISSERTATION SUPERVISION:**

Virginia Tech: Muchin Bazan (*Chair*, 2022), Abhinaba Nandy (*Chair*, 2022), Yichaun Cai (*Chair*, 2022), Yaojun Liu (*Chair*, 2022), Sunjin Kim (*Chair*, 2021), Sakshi Upadhyay (*Chair*, 2021), Haoyu Wang, Long Vu, Yuan Gu, Mengyang Chi (2021), Asal Pilehvari (2021), Dongwoo Lee (2019), Zhuncheng Li (2019), Bowen Shi (*Chair*, 2018),

Louisiana State University: Chandan Jha (*Chair*, 2014), Rajan Parajuli (2014), Matt Wisner (*Chair*, 2013), Qiquong He (*Chair*, 2012), Emre Unlu (*Chair*, 2012), Sarah Marx Quintnner (2011), Sandeep Bhowmick (2010), Nongnuch Soonthornchawakan (*Chair*, 2007), Anil Sulgham (2006), Huihua Li (2006), Moh'd Al-Azam (*Chair*, 2006), Dwi Susanto (2005), Ayca Altintig (2005), Subhadip Chakrabarti (2004), Manuel Fillipe (2003).

*External Examiner for Doctoral Dissertations:* Aden Benlaholou (2022) Silu Muduli (2021), Jingwen Qu (2020) Yuan Gao (2018) Antriksh Goswami (2018), Liza Charrion (2018), Hingu Ramesh (2018), Pradumna Pandey (2017) Arko Chatterjee (2017), Michael J. Naylor (2006), Sumit Sarkar (2004) and Ajanta Nath (2012).

## **REFERENCES:**

**PROF. MATTHEW O. JACKSON**  
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91128 Palaiseau CEDEX  
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Cornell University,  
*Currently:* Chief Economist  
World Bank  
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